

## Class 105 Polyvinyl Acetal Insulated Square Copper Magnet Wire

**Table1 Specifications**

Insulation materials	Polyvinyl Acetal
Thermal Class	105
Bare Wire Dimensions	awg 1 - awg 14
Certificate	UL
Standard	MW-18-C

**Table 2 Properties**

Adherence and flexibility	No cracks visible in the film coating
Minimum Percent Elongation	MW Specification:18, 20, 36, 38, 64, 84 T ≥ 0.049: 32 T < 0.049:30
Heat shock	No cracks visible in the film coating after 30% elongation followed by conditioning at 150 ±3°C.
Springback	Not greater than 5°

**Table 3 Dielectric Breakdown, Film-Insulated Rectangular and Square Magnet Wire**

Film Insulation	Minimum Breakdown Voltage	
	Any Three of Four Values	Fourth Value
Heavy	1500	500
Quad	2500	900

**Table 3 Periodic conformance tests**

Solubility	Specimens immersed in xylene shall not soften sufficiently to expose the bare conductor
Dielectric breakdown rated temperature	Average not less than 75% of the value required at room temperature, when tested on MW 15-C Heavy Build
Toluene / ethanol compatibility	No swelling or blistering in the film coating
Transformer oil resistance	No swelling or blistering in the film coating a) Dielectric breakdown values shall average not less than the values in Table 3 b) At least three of the five flexibility specimens shall show no cracks visible in the film coating c) Elongation specimens shall show no swelling or blistering in the film coating
Thermoplastic flow	Median not less than 180 °C, when tested as MW 15-C Heavy Build

**Application**



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